

Multiple-Choice Grade 9 Assessment of Mathematics, 2014

1. The following is the formula for the area of a circle:
 $A = \pi r^2$
 If the radius of a circle is 1.25 cm, which of the following is closest to its area?
 a 15.4 cm²
 b 7.9 cm²
 c 4.9 cm²
 d 3.9 cm²

2. What goes in the \square to complete the equation below?
 $(8x^2)(\square) = 24x^{17}$
 a $3x^9$
 b $3x^4$
 c $16x^4$
 d $16x^9$

3. A cellphone company offers four choices for purchasing talk time.
 Which of the following has the lowest cost per minute?
 a 200 minutes for \$24.50
 b 550 minutes for \$68.00
 c 700 minutes for \$80.25
 d 850 minutes for \$99.50

4. Mary has a garden that is made up of three square sections. He builds a fence on one side of the garden as shown below.

Which of the following is closest to the length of the fence, P ?
 a 19.7 m
 b 10.6 m
 c 9.9 m
 d 6.3 m

5. What is the value of x in the equation
 $-4(2x - 1) = 36$?
 a -4
 b $-\frac{13}{8}$
 c $-\frac{37}{8}$
 d -5

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Four stores hire people to deliver flyers. Each pays a different amount per flyer delivered. The points on the graph below show the total pay for a certain number of flyers delivered for each of the stores.

Which store will pay \$45 for 450 flyers delivered?
 a Store W
 b Store X
 c Store Y
 d Store Z

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The total yearly cost of a museum membership is made up of a fee of \$25, plus \$3 per visit.
 Which graph best represents the relationship between total yearly cost, C , and number of visits, n ?

a

b

c

d

Gertrude sells shoes.
 Her total pay each week is made up of a base salary and a commission of 15% of her sales that week.
 One week, her total pay is \$167.50 and she has \$850 in sales.
 Which equation below represents the relationship between her total pay, P , each week and sales, s ?
 a $P = 15s$
 b $P = 40 + 0.15s$
 c $P = 850 + 0.15s$
 d $P = 167.50 + 0.15s$

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Multiple-Choice

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Which of the following shows data from a non-linear relation?

a

n	P
1	8
2	5
3	2
4	-1

b

n	P
5	3.25
10	4.00
15	4.75
20	5.50

c

n	P
2	6
4	$\frac{9}{2}$
6	$\frac{9}{4}$
8	9

d

n	P
3	25
6	16
9	9
12	4

What is the value of P in the equation below when r = -7?

$P = 4 - 2r$

a -14

b -10

c 14

d 18

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Multiple-Choice

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Which of the following shows data from a non-linear relation?

a

n	P
1	8
2	5
3	2
4	-1

b

n	P
5	3.25
10	4.00
15	4.75
20	5.50

c

n	P
2	6
4	$\frac{9}{2}$
6	$\frac{9}{4}$
8	9

d

n	P
3	25
6	16
9	9
12	4

What is the value of P in the equation below when r = -7?

$P = 4 - 2r$

a -14

b -10

c 14

d 18

$P = 4 - 2(-7)$

$P = 4 + 14$

$P = 18$

6

Academic

Dec 13-9:15 AM

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